	102		104	
				106
	Multiplication Terms	=	Calculation Results for p=11101 & q=10111	Calculation Results for p=11101 & q=10010
107-	S(0)	=	000000000	000000000
	q_4*p*x^4	#	111010000 /3/	111010000 132
108-	$q_4*p*x^4 + S(0) = S(1)$	=	111010000	111010000
	q_3*p*x^3	=	000000000 /27	000000000 128
109-	$q_3*p*x^3+S(1)=S(2)$	=	111010000	111010000
	q_2*p*x^2	=	001110100 /23	000000000 /24
110-	$q_2*p*x^2+S(2) = S(3)$	=	110100100	111010000
	q ₁ *p * x	=	000111010 //9	000111010/20
111-	$q_1*p*x+S(3) = S(4)$	=	110011110	111101010
. [q_0*p*x^0	=	000011101 //5	000000000 1/6
112-	$q_0*p*x^0+S(4) = S(5)$	=	110000011 135	111101010 / 36

Fig. 1A PRIOR ART

150	L 170
11101 = p	11101 = p
$\times 10111 = q$	$\times 10010 = q$
000011101-//5	000000000-1/6
000111010 <i>-//9</i>	000111010-120
001110100-/23	000000000 -/24
000000000ー/27	000000000 - 128
111010000 -/3/	111010000 -132
110000011-/35	111101010 - /36

Fig. 1B PRIOR ART Fig. 1C PRIOR ART

	202		204	206
			Calculation Results for	Calculation Results for
	Remainder Terms	=	p=11101, q=10111	p=11101, q=10010
			and g=10010	and g=10010
208-	S(5)=S(M)=Z(1)	_=	110000011- 2/ 0	111101010 <i>-2/2</i>
	$Z(1)_8*g*x^3$	=	100101000	100101000
214-	$Z(1)_8*g*x^3+Z(1)=Z(2)$	H	010101011	011000010
	$Z(2)_7*g*x^2$	=	010010100	010010100
220-	$Z(2)_7*g*x^2+Z(2)=Z(3)$	-	000111111	001010110
	$Z(3)_6*g*x$	=	000000000	001001010
226-	$Z(3)_6*g*x+Z(3) = Z(4)$	=	000111111	000011100
_	$Z(4)_5*g*x^0$	_=	000100101	00000000
232-	$Z(4)_5*g*x^0+Z(4)=Z(5)$	11	000011010	000011100
	The GF product	11	$11010 \to x^4 + x^3 + x_2$	$11100 \rightarrow x^4 + x^3 + x^2$
·			240	242

Fig. 2 PRIOR ART

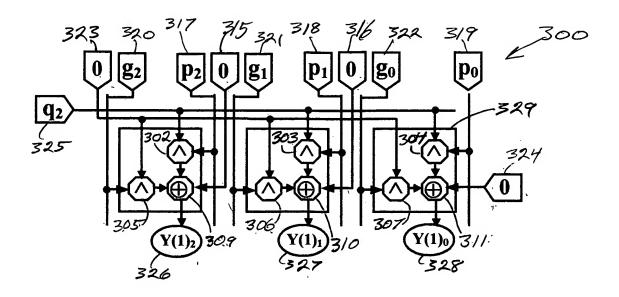


Fig. 3A

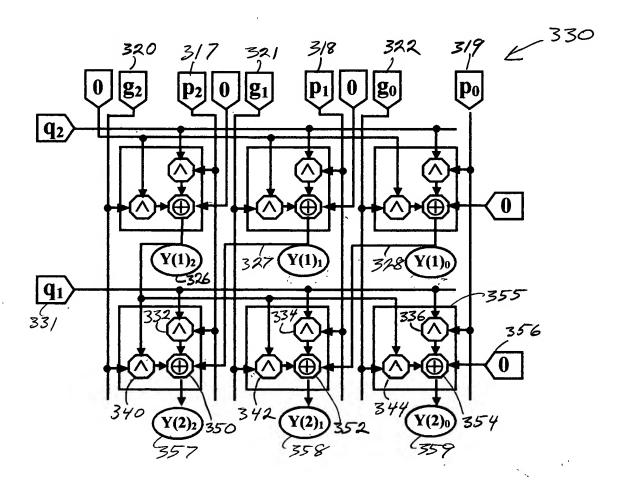


Fig. 3B

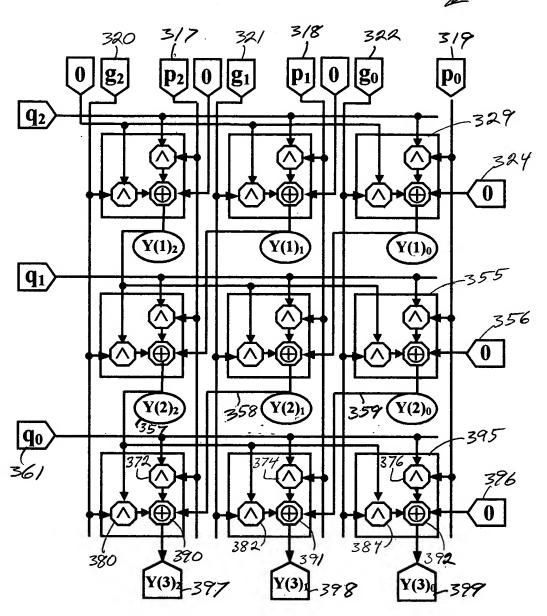


Fig. 3C

400 V

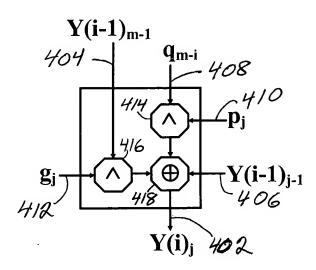


Fig. 4



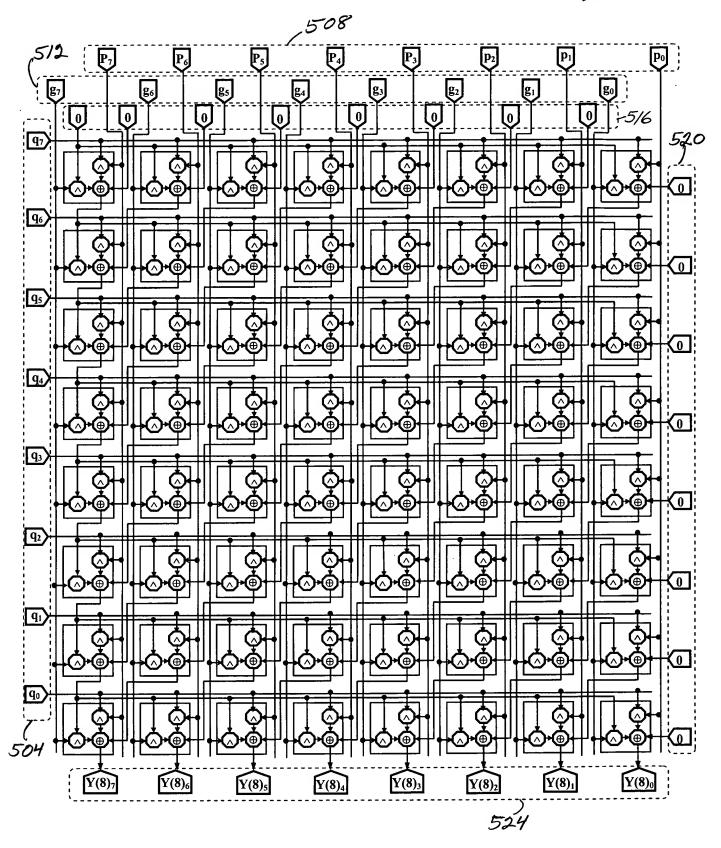
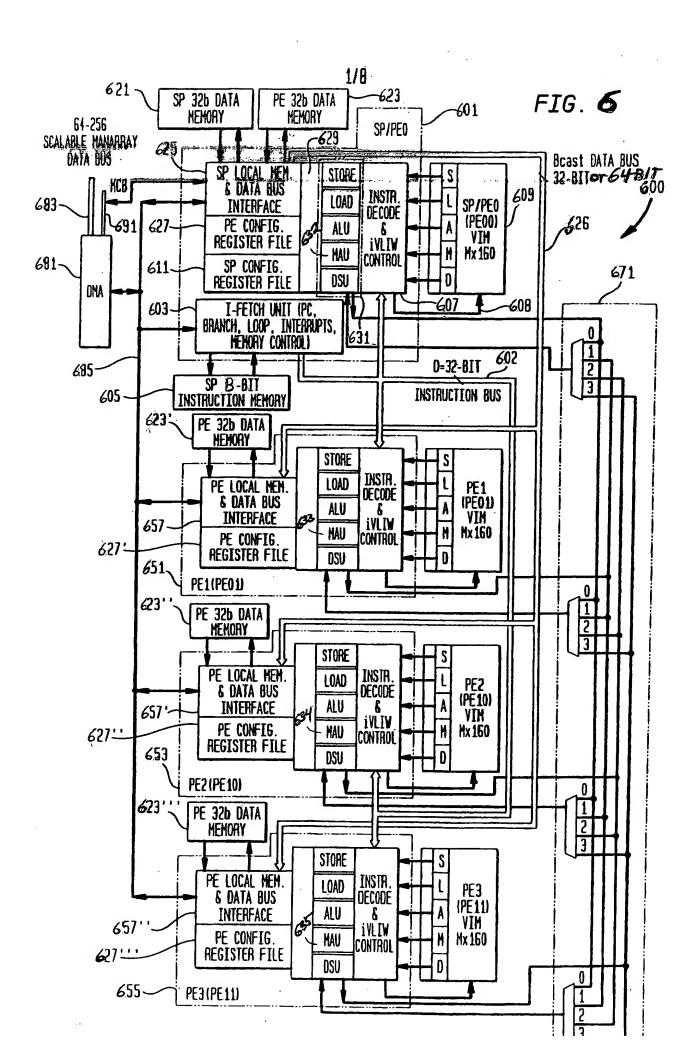


Fig. 5



700 V

31 30	29	28 27	26 25 24 23 22 21	20 19	18 17	16	15 14	13 12	11	109	8 7	6	5	4 3	2 1	0
Group	S/P	Unit	MPYGF opcode	Rt		Rx		Ry		0	CE2	MPack				
				Rt	e	0	R	кe	0			0	UCLZ	IVII ack		

Fig. 7A

750

		Syntax/Operation			_
		Instruction	Operands	Operation	ACF
				Quad	Bytes
(MPYGF.[SP]M.4UB	Rt, Rx, Ry	$Rt.B3 \leftarrow rem(Rx.B3*Ry.B3 / PSR.B0)$	None
Ì	\			$Rt.B2 \leftarrow rem(Rx.B2*Ry.B2 / PSR.B0) \sim 757$	
752	7			Rt.B1←rem(Rx.B1*Ry.B1 / PSR.B0)	
	·/			Rt.B0←rem(Rx.B0*Ry.B0 / PSR.B0)-755	
{		[TF].MPYGF.[SP]M.4UB	Rt, Rx, Ry	Do operation only if T/F condition is	None
·				satisfied in F0	
				Octa	l bytes
		MPYGF.[SP]M.8UB	Rte, Rxe, Rye	Rte.B3←rem(Rxe.B3*Rye.B3 / PSR.B0)	None
				Rte.B2←rem(Rxe.B2*Rye.B2 / PSR.B0)	
				Rte.B1←rem(Rxe.B1*Rye.B1 / PSR.B0)	
754	7			Rte.B0←rem(Rxe.B0*Rye.B0 / PSR.B0)	
)			Rto.B3←rem(Rxo.B3*Ryo.B3 / PSR.B0)	
				Rto.B2←rem(Rxo.B2*Ryo.B2 / PSR.B0)	
				Rto.B1←rem(Rxo.B1*Ryo.B1 / PSR.B0)	
				$Rto.B0 \leftarrow rem(Rxo.B0*Ryo.B0 / PSR.B0)$	
1		[TF].MPYGF.[SP]M.8UB	Rte, Rxe, Rye	Do operation only if T/F condition is	None
				satisfied in F0	

Fig. 7B